

Abstract

The present invention relates to a determination of a stereochemistry, a synthesis and a use of 6R-(3,6-dideoxy-L-arabino-hexopyranosyloxy) heptanoic acid as a pheromone isolated from the *Caenorhabditis elegans* related to suppress of aging and stress. It becomes possible to develop medical substances using the pheromone relating to aging, stress, metabolism, signal transfer system in vivo, and anti-cancer, obesity and a suppressing agent for aging and stress.